ROM THE PEN OF

OW CANARY FEATHERS WORE



BEFORE I START OUT PHIS DESITH I WOULD LIKE TO FUINT SOME PRING OUT. I WAS PROMISED MATERIAL TO FUT IN THIS MONTHS ISSUE OF LEAD SEAT, AS AND CAN SEE I'M LACKING SOME TO FILL PHIS ISSUE. EVERY ONE WANTED LOCAL NEWS AND MOT STUFF THAT LOUID APPEAR IN QSF LVENTUALLY. WELL, IF IT AIR'T HERE THAN IT WON'T GET PRIVIED.

ENOUGH OF THIS DILLY DAILY.
FROM NOW ON THE DIADLING FOR MATERIAL
IS THE END OF THE 2nd 255 OF EVERY

THE OFFICE DAY(SULDAY I'M 39th of Oct) (THE DAY AFTER I PICAL) UP ED'S 20 METER MIS) I HAD NO SCRAP AT VERSICAL (FHE DAY AFFER I FIGSLE UP EIPS 20
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LESS LIKEN ON COMMINISTRATIONS AND ADMINISTRATION

#390 September 14. FCC has now acted in the matter of Docket FCC has now acted in the matter of Docket 19163, regarding the Extra Class license. Effective October 27, 1972, the rules will be amended to provide a waiting period of one year under license, rather than two, as a condition of eligibility to take the extra exam. Present holders of Advanced Class who at the time held the old American Telescope exem. Present holders of Advanced Class who at one time held the old Amateur Extra First ticket and have been continuously licensed since, will get credit for the 20 wpm code test for the extra exam. Such credit will also be granted believe of cartain commence. also be granted holders of certain commercalso be granted noticers of certain commerc-ial operator licenses where the code require-ment is comparable. Further details will appear in November QST.

并持持接接接接接接接接接接接接接接

A gemins—is a screwball who makes a crackpot idea work.

MEMO TO ZERO BEAT .

CONTRIBUTORS

Typed material would be appreciated. This saves the editor time and prevents errors . Your typed material will be edited if space requirements dictate. Please make your material not more than three and one-half inches wide.

Schematics or drawings can also be reproduced by our printer. But, please, make them in ink or very dark pencil. Use a marking type pen if you like.

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THYRISTORS

What is a thyristor? It is any semiconductor switch whose bistable action depends on p-n-p-n regenerative feedback.
Thyristors can be two, three, or four
terminal devices, and both unidirectional
and bi-directional devices are available.

The most famous unidirectional thyristor is the SCR, silicon controlled rectifier. Others are SUS, silicon unlateral switch; Charge are SUS, silicon unilateral switch; LASCR, light activated silicon controlled rectifier; CSCR, complementary silicon controlled rectifier; GTO, gate turn-off switch; PUT, programmable unijunction rensistor; and the SCS, silicon controlled switch. Shockley diode is a reverse blocking diode thyristor. Fikes Peak Radio Amateur Association Inc.

Colorado Springs, Colorado

Member

Amateur Radio News Service



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Ed Pompea, Business Manager 2111 Trent Ave. 80909 635-7554 CHARLES SMITH: DISRIBUTION 2611 NORTH FARRAGUT AVL. COLORADO SPRINGS, COLO. 80907 635-7353

The PPRAA meets the second Wednesday of each month Securit: Savings East, East Platte at Union Blvd.

PRESIDENT'S COLUMN

We had scarcely finished our election at the October meeting when our newly elected President, Bill King submitted his resignation due to unforeseen developments. The PPRAA By-Laws provide that the Vice-President automatically becomes President. I will do my best in this capacity, and with the help of each and every member we can make PPRAA a better club than ever before.

At the November meeting we will hold an election to fill the one vacancy on the Board of Directors, then elect a new Vice-President from the five board members who are not already holding office.

During my tenure as President, I intend to make PPRAA responsive to the interests of its members in the FURTHERANCE OF AMABUR RADIO. In this light, the theme I intend to pursue is participation by the club members, especially at the monthly meetings. If you're interested enough to come to the meetings, certainly you have something of interest to pass on to other members.

Along this same theme, there is no reason we can't fill # Beat each month with news of local AMATEUR RADIO activities. If you are proud of your particular AMATEUR RADIO activities, tell us why. If you tell others about it, you just may encourage them to try it too.

I anticipate that the monthly club meeting programs will be devoted to radio communications, in particular, AMATEUR RADIO. If you're looking for programs on other subjects, you're in the wrong club.

Hope to see you all at the meeting November 8th. Let's make PPRAA an AMATEUR RADIO club we can all be proud to be members of.

73, Wayne, W2TPV/9

CHRISTICAS PARTY

The December meeting is to be at nott's. Don't show up at the usual meeting place as the gang won't be there. Instead we will neet at nott's Fine Food destaurant, paturday December 2nd at 1939 south acvada, for a delicious dinner and entertainment. The cost will be \$3.00 for a fried chicken dinner or \$3.50 for a roast beef dinner. The festivities will start at \$1.00 or and the dinner at 7:00 pa. Flease confirm your reservations no later than movember 15, by calling thuck at \$32-3143 or magno at 593-7096. Some on out for a grea' evening of entertainment and fun.

Chuck

永永塩

at the Accember meeting we will be voting for one Loard Lowber and a Acce-President. L. Likal Tour vote counts!

Dues for 1973 will soon be due. You can get an application at this month's meeting. Please print clearly or type. Send or give dues and the filled out application to your treasurer "Irv" abel. Dues are: \$2.00 for associate membership and \$3.00 for full membership. Just add \$4 and the whole family is taken care of!

PRESIDENT HAYNE BROWN WZTPV/Ø 2829 SHADY DRIVE 80907 598-7096 VICE PRESTDENT SECRETARY IRVIN K. EBEL MOKUTY 1224 NORTH CUSTER 80903 473-3630 TREASURER EDITOR MICHAEL D. PAYNE MOLVJ/ A70XA 2312 WEST PIKES PEAK AVE. 80904 471-471-9362 ILIMAN OF THE BOARD PETE DENARIO 1310 KINGSLEY DRIVE 30909 KOUDG 596-3633 EDSARD POTPLA 2111 PREMT AVL. 30909 635-7554 JULIAN D. CONTELL APRICE 721 LANSING DRIV. 30909 596-4216

Remember: When the club asks for money for the Repeater - NV.. Just a little from everyone will help lots. and for the yearle that use ... I've a five or ten spot would really be appreciated.

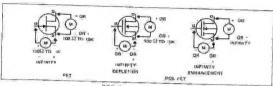
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Circuit News



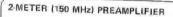
FET Tests Using an Ohmmeter

J FET			1
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(10 meg)		Medium to	Very high
Long		-	(100 mag)
	(Long, see text)	Long	Short
7 × 10-9	1 X 10 12	V× 10-6	1 x 10'9
Law			1 2 10 2
Cow	Low (variable)	Medium to law	Low
Amplification Factor Low	Low		Low to high
	J FET' High (10 meg) Long T X 10 ⁻⁹ Low	J FET MOS FET High Very high (100 meg) (100 meg) Long (Long, see text) 1 × 10 ⁻⁹ 1 × 10 ⁻¹² Low Low (variable)	High (100 meg) (

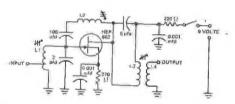


SAD NEWS

Mrs. Bernice Mintz, wife of Max Mintz, of D & M Electronics Supply, passed away November 2. She was active in the operation of the business for the past 20 years. Local amateurs always received a cheery smile from her.. Services were held at Swan Funeral Home Nov. 3. all extend our condolences to Max.



USES: FEATURES: Provides Low/Noise Amplification Alisad of 14dB Gain at Low Noise Recover



- PARTS LIST:
 1 HEP BOZ
 1 Caramic Capacitor, 0:001 mfd 10V
 1 Caramic Capacitor, 2 ptd, 10V
 1 Mice Capacitor, 2 ptd, 10V
 1 Mice Capacitor, 5 ptd, 10V
 1 Mice Capacitor, 100 ptd, 10V
 1 Resister, 220 S2, 1/2 Watt, ± 10%
 1 Resister, 270 S2, 1/2 Watt, ± 10%
 1 SFST Switch

- (All coils wound on brassitug ceramic formi L1.5 1/4 forms, tapped at 1.1/4 turn. #26 L23 1/2 turns, #34 L3 5 turns. #36 L4-1 1/4 turn #26, at low end of L3

- NOTE All, leads should be kept as strain as possible upo board is recommended!

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DX

DX originally meant distant, or distance, for those early radio pioneers who wanted to work outside their immediate locale. As equipment improved, and more was learned about this strange hobby of ours, the meaning was gradually changed to mean outside the state, country, and eventually, outside the continent. Today the general interpretation of DX, as applied to the HF bands, means outside the country, Avid U.S. DXers generally mean outside the North American Continent.

There are approximately 325 countries as defined by the ARRL DX Committee. Although there are only some 156 independent countries in the world, ARRL applies many criteria to define and increase the country list so those of us who enjoy this phase of the hobby always have a "new" country looming in the future.

Some of the criteria are; geographical separation by foreign land, separation by water and by government administration. Interestingly enough, ARRL refuses to recognize East Germany or Berlin as falling into any of these areas.

ing various totals and/or combinations of countries. ARRL awards the DXCC for 100 countries worked and confirmed. While DXCC was difficult totobtain at one time, today it is possible to work over 100 countries during a single weekend...hence the competition to push your total towards 325.

The International Short Wave League offers the Century Club Award and the Radio Club of Argentina applies a slight variation by requiring 101 confirmations to win the 101 Award.

the most coveted DX Probably award is the Worked All Zones, or WAZ, offered by CQ Magazine. Rather than rely on rather nebulous boundaries, they divided the world into 40 zones and confirmations from all 40 are required to win the WAZ. Your writer was fortunate in getting WAZ #1393 in 1960. Next month I hope to discuss some of the methods and procedures used to work not only the more but how to go common countries, after those elusive "rare" ones.

Since this is our first column, we are working with a limited input for who is working what from the Pike's Peak area. Please

ing, and when, so it may be included in future columns.

Wayne, W2TPV/Ø has been working numerous JA stations on 21 mhz SSB. Russ, WBØGKF, worked F8RV and HB9AJI on 21cw, using a Ranger and a dipole only 10 inches above the roof. Since those are my only inputs, I must rely on my own log to demonstrate some of the DX that was being heard in this area during October.

14mhz 0200-0400Z CR7BN, ZS1FF, ZS5KI, UK9KAD, UL7CT, UAØSP, CE3CB and CP5BC.

21mhz 1400-1700Z
HA5KKB, OH2RL, YU2ACD, OK3DG, UK1
AAG,F8RU, DK6ML, I1PZ, EA2IA, ON4
AW, GI3YFY, SM3AT, LZ1KEZ and
PAØCWS.

21mhz 2300-0200Z HM5EE, VK2EG, PY3CBX, VK6HD and JAs all over the place.

28 MHZ

FGØAMC/FS7----1500Z, PZ5CW--1510, CR6AD---1845 and ZL3AB---2200.

As you can see, more reports are needed from you DXers. Mail them to me at 1927 Wynkoop Drive, 80909 or phone them in at 596-1912 during the evening.

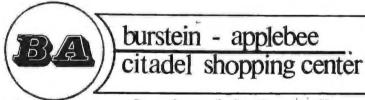
73, Dale, WØLDV

FOR SALE

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NOVEMBER 8 MEETING

Dale Green, WOLDV, will be our speaker on Nov.8. He has promised an amusing and informative program entitled, "COMMUNICATIONS FOR LADY GODIVA".



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see dan -waékxo



OKNER

CONDUCTED BY TOM SEGRAVES

PROPAGATION AT MCKN FREQS

PART 3: COMMUNICATION LIMITATIONS

THE ATMOSPHERE AND/OR POOR PLANNING IN THE INSTALATION OF MCRJ SYSTEMS CAN SPALL THE DOOM OF ASTABLISHED COMMUNI-CATTONS. THIS IS INLTOPIC FOR THE COMPLETION OF PROPAGATION. I WIL POINT OUT SOME OF THE CONDITIONS THAT EFFECT MCRW IN THE ATMOSPHERE AND A FEW AREAS TO MAICH FOR IF YOU LVER DUCLDE TO PLAY ARDUND ATTH MCAAL BADIO AVLS STLL MAVAL. IN A VACUE . MARLY 136,000 MILES PER SECOND, On LF TOO PASELR 330 YARDS THE MICROSECO. J. L. ATLOST ANY OTHER PROTON, BOAVER, MIK VEICELTY WILL BE SLOWER FIRE PINE OF A VACUMON. ALIO STRING OF DIFFMAR FRANCIS HAVE DIFFERENT V_LOCK-Ten SOLI L. A.J. OUL OF A VACULTA.

THE SOUSING A UNIT CALLED TARA

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ACCURATE ACCU

A MORN SIGNALS N OF AIR BLOOMES
STALLER WITH BLOCKLASTING PRESSURE AND
MOISTURE CORPLANT BUT LARBER WITH

BLOCKLASING TEMPERATURE. SO IN A MORNAL
ATMOSPHERZ, THE HIGHER IN ALLITUDE YOU

GO THE SMALLER WILL BECORE EACH OF THE
VARIABLES JUST NAMED. THE MESULT,

UNDER NORMAL CONDITIONS, IS THAT MORN

SIGNALS DECREASES UNIFORMLY WITH HEIGHT

UP TO APPROX. 20,000 TO 25,000 FEET.

WITH THE INCREASE OF HEIGHT ANOTHER SIT—
ON EXISTS. THE PATHS FOLLOWED BY

MORN SIGNALS ARE AIMOST ALMAYS CURVED.

THE SPEED AT WHICH A MCRW SIGNAL
TRAVELS THROUGH THE ATMOSPHERE DEFENDS
ON THE FRREE VARIABLE. USUALLY THE
HIGHER THE TEMPUATUR. ALL FASTER THE
SIGNAL. SAME WITH IDWERING THE WATER
CONTENT AND THE ATMOSPHERIC PRESSURE.
SO WHAT HAPPENS WITH AN INCHEASE IN
ALTITUDE? AN INCREASE IN THE SPEED OF
THE SIGNAL.

PASS FROM ONE MEDIUM TO ANOTHER MEDIUM
THAT HAS A DIFFERENT DENSITY. BECAUSE
WAVES ARE BENT FROM LOWER DENSITY MEDIUM
DATO A HIGHER ONE OUR ATMOSPHERE CAN
CAUSE RADIO MAVES TO BE BENT AROUND THE
BEARTH. NOW A CUEVED PATH LIKE THIS IS
CALLED A DUCT. STRANGE AS IT MAY SEEM
TO SOME OF YOU, THE GREATER WILL BE YOUR
CHANGES OF GETTING INTO A DUCT WHICH WILL
GIVE YOU APMORNAL PROPAGATION LEFFLCTS.

THE PHREE VARIABLES HAVE A HAND
IN CAUSING PRESE DUCTS THAT I HAVE
MENTIONED. UNDER NORTH CONDITIONS
WHERE PARK, AND ROTSPUR. ACREASE UNIFORMAY AITH ALTITUDE DUCTS CARROT SK FORED;
HOWEVER HER A BREAT VARIATION OF
MIOSPURE AND PLAF. INVESTOR EXIST TOGETHER THEN A DUCT IS LIKELY TO EXIST,

THERE ARE TWO OFFER FROLES THAT THE
ASTROSPHERE PRESENTS TO LORY AND THEY ARE

1. SCATTERING THE FORM SITERALS OR 2. THE
ASTORPTION OF THEM.

COLT. PAGE 6

EVERYTHING IN REAL ESTATE

HOMES LAND RANCHES SALES and RENTALS

ED POMPEA 635-7554

BILL KING



596-8200
3803 PALMER PARK BLVD.
(NEAR THE RUSTIC HILLS SHOPPING CENTER)

CAUSED BY THE PRESENCE OF DUST, WATER,
SNOW, OR ICE IN THE AIR. THEY ARE AS
REPIECTORS AND CAUSE THE SERVAL TO
SCATTER IN ALL DIRECTIONS. A SMALL PART
OF THE SIGNAL CAN SOMETILES REPIECTRACK
TOON TISELTS BUT HOST OF IT WILL BE RADIAT—
AS YOU GO RIGHER IN TRUE, TOU WILL PIND
LAAT THIS EFFECT SECONES TORS. SHEET FIRE
THEY, REACHES IT A BAND ARE HATN, SYEN
FUL CAT. ARE THE REQUIREMENT USINGS.

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DIAGRAIM BUT AT THE END OF THIS SERIES I WILL PUT IN THE EQUATIONS NEEDED FOR THOSE OF YOU WHO ARE INTERESTED). THERE ARE OTHER LIMITATIONS ON THE MAXIMUM RANGE OF MCRW COMMUNICATION THAT HAVEN'S BEEN MENTIONED YET. WE NOW KNOW THAT PHANE CAN BE NO COMMUNICATION BUT BEEN PMO LICEL SITES UNLESS THERE IS AN URUS-SPRUCELD RADIO LETE OF SIGHT (ALLE LEAST THE CURVE). MY HIS WILL NOT SAIR IN PHAT COMMUNICATION WILL BE POSSIBLE MEN THE LINE OF SIGHT LI CLEAR. THE BE LIE POOR RECRIVER SEAST LYING, ID KHTTTER POWER LVEN A 130 DEGREE REFLEC-TIVE MAVE OF L. SUSE SCHELIGHT TO CALCLE OUT THE DIRECT LAT CAL RESULT I' AS CO. ANTICATIONS. OF CAURS. OF CAURS. THE OUR ACTOURS AND TO SEE IT IN THE LAB. SO IT IS LUCESTALL IS a ... La SO FILITIST JIL PROBLEM TO CELEBO JUL 12 03 1 2 Pain Jone and the I'm at again R STORES OF BLANCE OF STREET CALIDED : OUSIDED.

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ARRL OFFICIAL BULLETINS

387 August 24.
Announcement is hereby made of two actions taken concerning the DXCC. Effective October 1, the Maria Theresa listing is removed from the Countries List and all credits which have been given will be annulled. Also effective October 1, Minerva Reefs will become a deleted country and only contacts made prior to July 15, 1972 will be creditable towards this listing. The Kingdom of Tonga has annexed Minerva Reefs. Because Minerva is less than 500 miles from Tonga, it no longer meets the criteria for seperate status. These actions are in accord with recommendations made by the ARRI DX Advisory Committee. Full details appear on page 106 of September QST.

#339 September 7.
Two new editions of popular ARRI directories are now available for distribution. The current revision of the Repeater Directory, detailing 615 repeaters, requires an addressed envelope larger than 6 by 9 inches, with 24 cents postare for first class mailing. The 1972 Net Directory can be sent first class in an addressed lesal size envelope with 16 cents return postage. For both directories, send the larger envelope with 32 cents postage. Directories have been mailed to those filing earlier requests.

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To choose 2 more members to assist '

2 - METER RY COUNTERS

Clyde Still

Pete and Ida Demario - KOUDG - MAGNIA

dob Sayers - ADOFA

Javid Jivan - KOLE

jeorge kowalski - \$10%

Dak Stockton - KONOL - also acting representative to CCARC

2 - Link at COMMITTEE

"Boo" Cornell - .4.30

"irv _bel - .pr.N

SELACH ATT AUGCUL - 1 Faso County

Seorge Movelski - Jick

YOUTH AUTISTAL -

_eb _orers - coordinator - which

14035

Dean James - MAPJ.i - Ladio Officer

_ldon Lewis - assistant .adio Officer AD A

watti

Pete Jemario - MOUDG

TECHNICAL DESTRUCTION CONTINUE

John Jummers Sr. - WAMMER Charles Myers - WISS WASZCS Elner Schladweiler - WAMMY Will Gordon - WEJF

HISTORIANS

Jim deynolds - MAIE

"Doc" Cornell - WOLCT

Gene Bacon - WOCKY

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Pete Demario - KOUDG

Bill Haskins - KOCEN

Dak Stockton - KOROL

Ida Demario - WANTA

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INTERFERENCE COMMITTEE

To chose 2members to assist

YL COLDETTEL

Shea Allison - JRDY/ \$

Ma Depario

lene broom

Liz Don Carlos

Jairley Kowelski

Ida Demario - AM. I.

was thel

Sill Haskins - MCEN

art layer - ADAEH

James Don Carlos - MITU - chairman

Ida Demario - .. idilla

SHOOP CONTINUE (JUSTERED LIVE OF OPERATORS)

Iris Burners

DEFINALITY CO.L.T.

"larty" arom - 2VII/6

irene Pomosa - Ida II

James Jon Carlos - MINU

Dean Jaynes - .APJH

Dale Green - WILDV

Irv Ebel - WOKAV

maury Amderlich - WAGYNP

darlan Park - JAGYVS

Chuck Incas Jr. - MAGMJK

Fred Falmblad - MCYM

Jayne brown - 122PV/\$

Mike Stansbury - MOHCK

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Dale Green - MIDT

.ayne _roum - .2:PV/0

wike Fayne - WOLTJ/ .Li70:11

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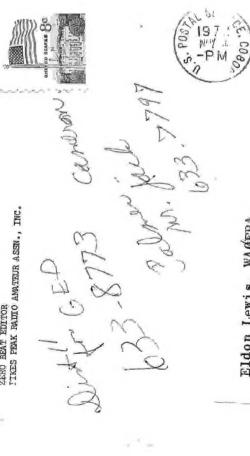
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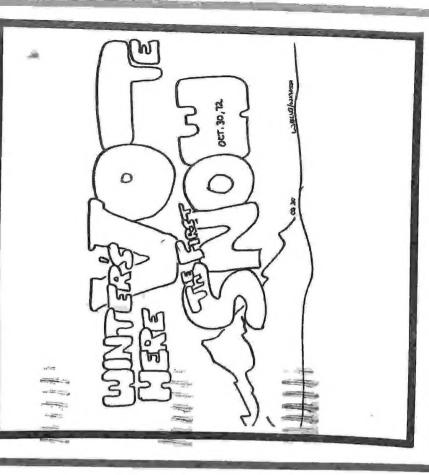
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